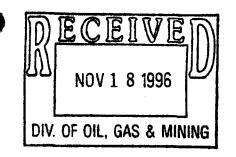
### Petroglyph Operating Co., Inc. P.O. Box 1839

Hutchinson, KS 67504-1839



November 6, 1996

Utah Division of Oil, Gas, & Mining Attn: Mr. Frank Matthews, Petroleum Engineer 1594 West North Temple Box 145801 Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL UTE TRIBAL #18-16
SE/SE SEC. 18, T5S, R3W
DUCHESNE COUNTY, UTAH
LEASE NO. BIA 14-20-H62-3513
UTE TRIBAL LANDS

Dear Mr. Matthews:

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter
P.O. Box 1910
Vernal, UT 84078
Phone # (801) 789-4120
Fax # (801) 789-1420

Sincerely

Lu 110ι Δαent

Petroglyph Operating Co., Inc.

Attachments

/EHT/dmt

Form 3160-3 (July 1992)

APPROVED B

## UNITED STATES

SUBMIT IN TRI (Other instructions on reverse side)

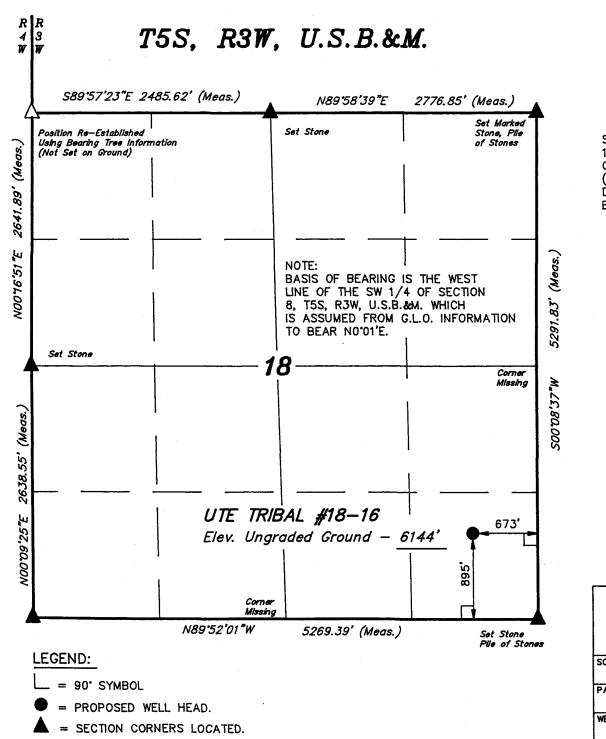
FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

## DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT 14-20-H62-3513 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN UTE INDIAN TRIBE 1s. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL X DEEPEN b. TYPE OF WELL GAS WELL MULTIPLE ZONE WELL X S. FARM OR LEASE NAME WELL NO 2. NAME OF OPERATOR UTE TRIBAL PETROGLYPH OPERATING COMPANY, INC. 9. API WELL NO. 3. ADDRESS AND TELEPHONE NO. #18-16 P.O. BOX 607, ROOSEVELT, 10. FIELD AND POOL, OR WILDCAT UT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) ANTELOPE CREEK 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 895' FSL & 673' FEL SE/SE N3800 At proposed prod. zone Sec. 18, T5S, R3W 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 12. COUNTY OR PARISH | 13. STATE 18.5 MILES SOUTHWEST OF MYTON, DUCHESNE UTAH 15. DISTANCE FROM PROPUSED\*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 17. NO. OF ACRES ASSIGNED 16. NO. OF ACRES IN LEASE TO THIS WELL (Also to nearest drlg. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION\*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOULS 5934' ROTARY 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START\* 6142.0'GRADED GROUND NOVEMBER, 1996 PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE GRADE SIZE OF CASING WEIGHT PER FOOT QUANTITY OF CEMENT SETTING DEPTH 12 1/4 5/8 24.0# 250' 135 sx class "G" + 2% CaCl<sub>2</sub> 7/8 5 1/2 15.5# 5934' 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES CONFIDENTIAL OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG + ) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS). PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED OPERATOR OF THE SUBJECT WELL UNDER BOND # BO 4556. Utah Division of Oil, Gas, and Mining pc: Bureau of Indian Affairs, Fort Duchesne, Utah Ute Tribe, Fort Duchesne, Utah NOV 1 8 1996 DIV. OF OIL, GAS & MINING IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any 11-6-92 (This space for Federal APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instructions On Reverse Side/

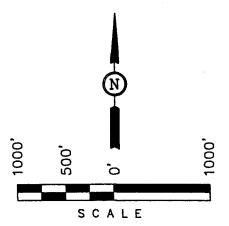


#### PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #18-16, located as shown in SE 1/4 SE 1/4 of Section 18, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

#### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 18, T5S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5943 FEET.



#### CERTIFICATE

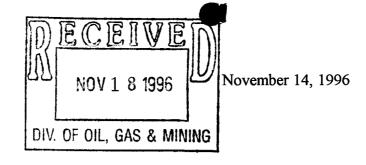
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR REGISTRATION NO. 161319 STATE OF UTAH

# UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017

(661) 165 1611						
SCALE 1" = 1	000,			DATE SURVEYED: 10-1-96	DATE DRAWN: 10-4-96	<del></del>
PARTY B.B.	в.н.	C.B.T.		REFERENCES G.L.O. PLA	ΛΤ	
WEATHER WARM			FIL	E TROGLYPH OPE	RATING CO., IN	۰ ۱C.

State of Utah Division of Oil, Gas & Mining 1594 West North Temple Box 145801 Salt Lake City, UT 84114-5801



RE: Application for Exception Well Location Proposed Ute Tribal #18-16 Township 5 South, Range 3 West Section 21: SE/4 SE/4 Duchesne County, Utah

#### Gentlemen;

Petroglyph Operating Company, Inc. (Petroglyph) respectfully requests administrative approval per R-649-3-3 to drill the Ute Tribal #18-16 a 5934' Green River test, at a location 895' FNL & 673' FWL, SE/4 SE/4, Section 18, Township 5 South Range 3 West, Duchesne County, Utah.

The aforementioned footage is not a location at which a well could be drilled in compliance with the spacing order of this lease, which established 40 acre drilling units.

Enclosed is a topographic map which depicts the surface contour in the area of the subject location. Petroglyph believes the proposed exceptionally spaced location to be the preferred location from a construction standpoint. Also this location is preferred by the Bureau of Indian Affairs Resource Department and the Ute Indian Tribe, Energy and Minerals Department who regulate activities on this land.

Petroglyph Operating Company Inc. holds 100% of the operating rights underlying the subject drilling unit as well as drilling units within a one-half mile radius of the subject unit.

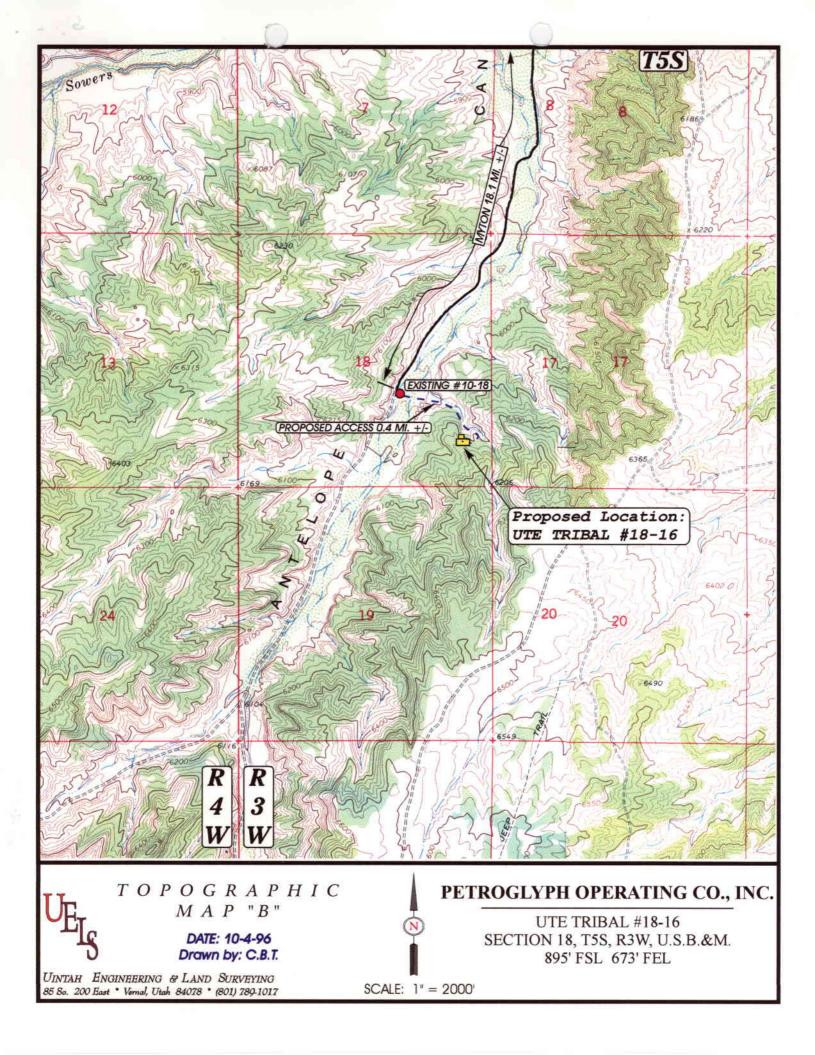
Petroglyph respectfully requests the Division of Oil, Gas and Mining Administratively grant this application for the exceptional well location at its earliest opportunity.

Please direct further correspondence and approval to myself at P.O. Box 1910, Vernal, Utah 84078, or phone me at 801-789-4120.

Sincerely,

Petroglyph Operating Company Inc.

Ed Trotter, Agent



#### **EIGHT POINT PLAN**

#### UTE TRIBAL #18-16 SE/SE SEC. 18, T5S R3W DUCHESNE COUNTY, UTAH

#### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2737	3415
'X' marker	4317	1835
Douglas Creek	4457	1695
"B" Limestone	4845	1307
B/Castle Peak Limestone	5409	743
Basal Carbonate Limestone	5824	328
Total Depth	5934	218

Anticipated BHP

2600 psi

#### 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

Substance	<b>Formation</b>	Depth	Subsea
Oil/Gas	Douglas Creek	4457	1695
Oil/Gas	B/Castle Peak	5409	743
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

#### 4. CASING PROGRAM:

						MINIMUM S	SAFETY FA	CTOR
HOLE SIZ	E INTERVAL	LENGTH	SIZE	<b>WEIGHT</b>	<b>GRADE</b>	<u>COLLAPS</u>	E BURST T	ENSILE
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 5934'	5934'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

#### **EIGHT POINT PLAN**

#### UTE TRIBAL #18-16 SE/SE SEC. 18, T5S R3W DUCHESNE COUNTY, UTAH

#### 5. MUD PROGRAM

INTERVAL	MUD TYPE
0' - 250'	Air
250' - 4000'	Air/Mist & Aerated Water
4000' - TD	Air/3% KCL water or KCL substitute
TD	Gel/polyacrylamide plolymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

#### 6. <u>VARIANCE REQUESTS:</u>

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

#### 7. **EVALUATION PROGRAM:**

Logs:	Mud Logging	T.D. to base of surface csg.
	Compensated Density-Compensated Neutron Log	T.D. to base of surface csg.
	Dual Laterolog - Micro-SFL	T.D. to base of surface csg.
	Numar (Magnetic Resonance Imaging Log)	@ Geologists discretion

Cores: None Programmed DST': None Programmed

Completion: To be submitted at a later date.

#### 8. ABNORMAL CONDITIONS:

None anticipated.

#### **EIGHT POINT PLAN**

#### UTE TRIBAL #18-16 SE/SE SEC. 18, T5S R3W DUCHESNE COUNTY, UTAH

#### 9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

#### 10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in associaton with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in associaton with the drilling of this well.

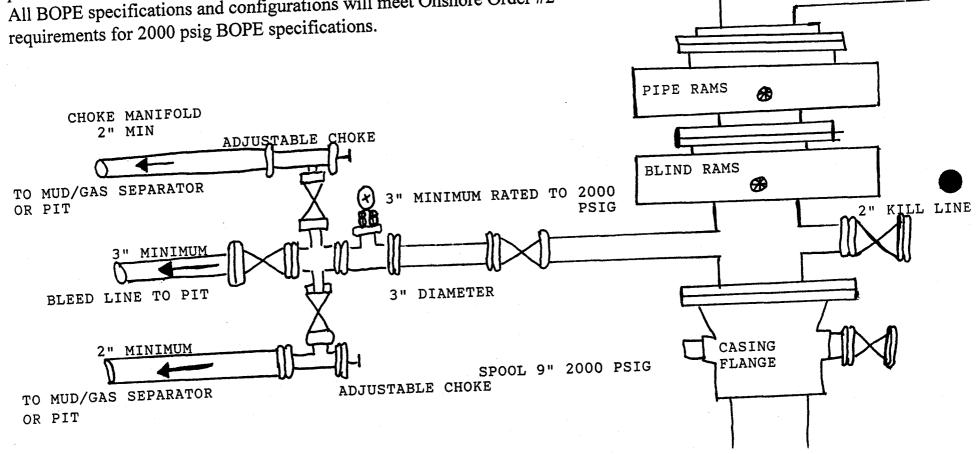
(Attachment: BOP Schematic Diagram)

## 2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED. CASING FLANGE IS 9" 2000 PSIG RATED. BOPE 9" 2000 PSIG

## **TESTING PROCEDURE:**

- 1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
- 2. Blind rams will be tested to rated working pressure, 2000 psig
- 3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
- 4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
- 5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



ROTATING

HEAD

FLOW LINE

# CONDITIONS OF APPROVAL FOR THE SURFACE USE PROGRAM OF THE APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.

Well Name & Number: <u>Ute Tribal #18-16</u> Lease Number: <u>BIA 14-20-H62-3513</u>

Location: 895' FSL & 673' FEL SE/SE, Sec. 18, T5S R3W

U.S.B.&M., Duchesne County, Utah

Surface Ownership: Ute Indian Tribe

#### NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice

- at least twenty-four (24) hours prior to spudding the

well.

Casing String and

Cementing

- twenty-four (24) hours prior to running casing and

cementing all casing strings.

BOP and related

**Equipment Tests** 

- twenty-four (24) hours prior to running casing and

tests.

First Production

Notice

- within five (5) business days after new well begins

or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice To Drill and Surface Use Program.

#### THIRTEEN POINT SURFACE USE PROGRAM

#### 1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing road.
- B. The proposed well site is located approximately 18.5 miles southwest of Myton, Utah See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

#### 2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.4 miles in length. See attached TOPO Map "B"
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the

roadbed as necessary to provide a well-constructed safe road.

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

# 3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells None
- B. Abandoned wells None
- C. Temporarily abandoned wells None.
- D. Disposal wells None.
- E. Drilling wells None.
- F. Producing wells 8\*
- G. Shut in wells None
- H. Injection wells None(\*See attached TOPO map "C" for location)

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

#### A. ON WELL PAD

- 1. Tank batteries Yes
- 2. Production facilities-To be submitted later
- 3. Oil gathering lines None

- 4. Gas gathering lines-None
- 5. Injection lines None
- 6. Disposal lines None
- 7. Surface pits None

#### B. OFF WELL PAD

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. A 4 1/2" OD steel pipeline will be laid approximately 2200' from proposed location to a point in the NW/SE of Section 18, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing pipeline. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
- Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
- 4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the South side of the location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A.

(Occupational Safety and Health Act) will be excluded. The required paint color is Desert Brown.

#### 5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

#### 6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

#### 7. METHODS OF HANDLING WASTE DISPOSAL

#### A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.

- 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site.
  Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

#### On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

### \_\_\_To protect the environment:

If the reserve pit is lined the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

\_\_To protect the environment (without a chemical analysis) reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

\_Storage tanks will be used if drill sites are located on tribal

irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

#### 8. ANCILLARY FACILITIES

A. No airstrips or camps are planned for this well.

#### 9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the North side of the location.

The flare pit will be located downwind of the prevailing wind direction on the North side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the West end.

Access to the well pad will be from the East.
N/A Diversion ditch(es) shall be constructed on the
side of the location (above/below) the cut slope, draining to
the
N/A Soil compacted earthen berm(s) shall be placed on the
side(s) of the location between the
N/A. The drainage(s) shall be diverted around the sides of the well pad location
N/A The reserve pit and/or pad locations shall be constructed long and
narrow for topographic reasons
X Corners No. 2, 4, 6, & 8 will be rounded off to minimize excavation.

#### FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly travelled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on federal land, or any fence between federal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to

satisfy himself/herself that the fence is adequately braced and tied off.

#### 10. PLANS FOR RESTORATION OF SURFACE

#### A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

#### B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and BIA will attach the appropriate surface rehabilitation conditions of approval.

#### ON BIA Administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, (c) ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

#### 11. SURFACE OWNERSHIP

Access road:

**Ute Indian Tribe** 

Location:

**Ute Indian Tribe** 

#### 12. OTHER INFORMATION

A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of historic Places;

the mitigation measures the operator will likely have to undertake before the site can be used

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA,

or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

#### On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator,

the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

	ional Surface Stipulations	1				
N/A	_No construction or drilling activities shall be conducted between					
	andbeca	use of				
N/A	_No surface occupancy will be allowed w grouse strutting ground.	ithin 1,000 feet of any sage				
N/A		are nermitted within 1.5				
	mile radius of sage grouse strutting grou	•				
N/A	thin 600 feet of live water					
* W * *	(includes stock tanks, springs, and guzzl					
N/A		<b>.</b>				
N/A	No cottonwood trees will be removed or damaged.  Pond will be constructed according to BLM specifications					
11//1		•				
	approximatelyft.	of the location, as hagged				
	on onsite.					
LESS	EE'S OR OPERATOR'S REPRESENTA	TIVE AND CERTIFICATION				
	<b>PERMITTING</b>	<b>OPERATIONS</b>				
	Ed Trotter	Vince Guinn				
	1620 West 750 North	P.O. Box 607				
	Vernal UT 84078	Roosevelt, UT 84066				
	Telephone # (801)789-4120	(801) 722-2531				
	Fax # (801) 789-1420	Fax # (801) 722-9145				

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

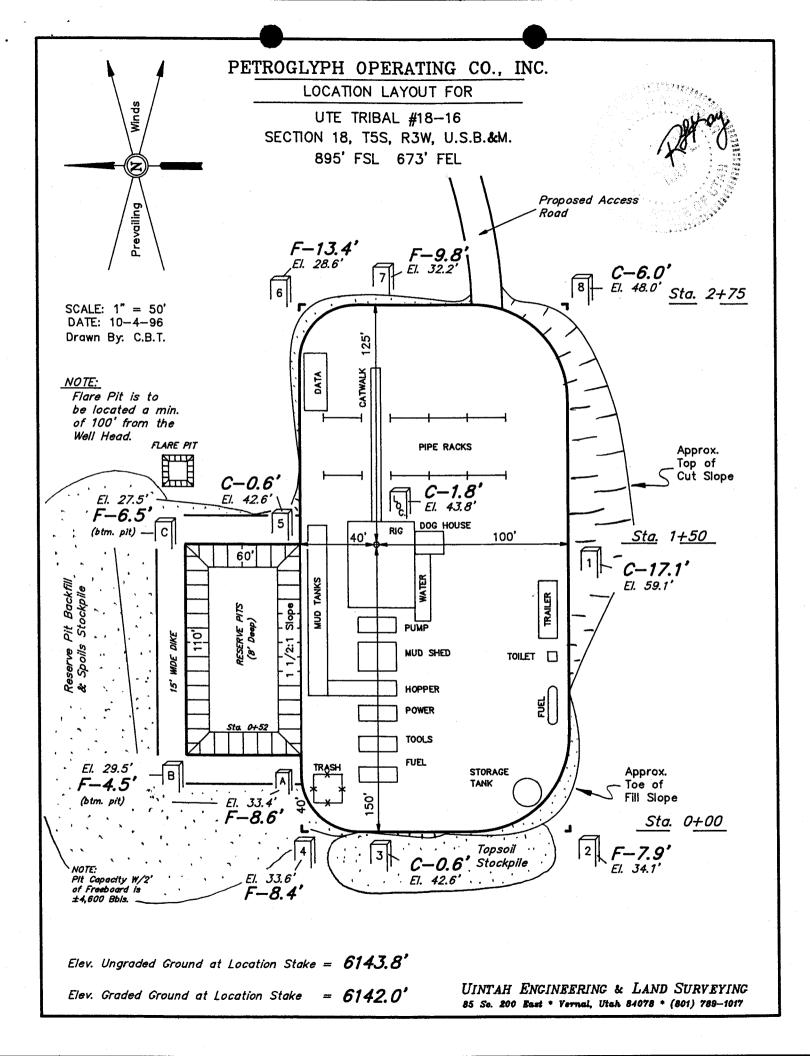
The BIA Office shall be notified upon site completion prior to moving on the drilling rig.

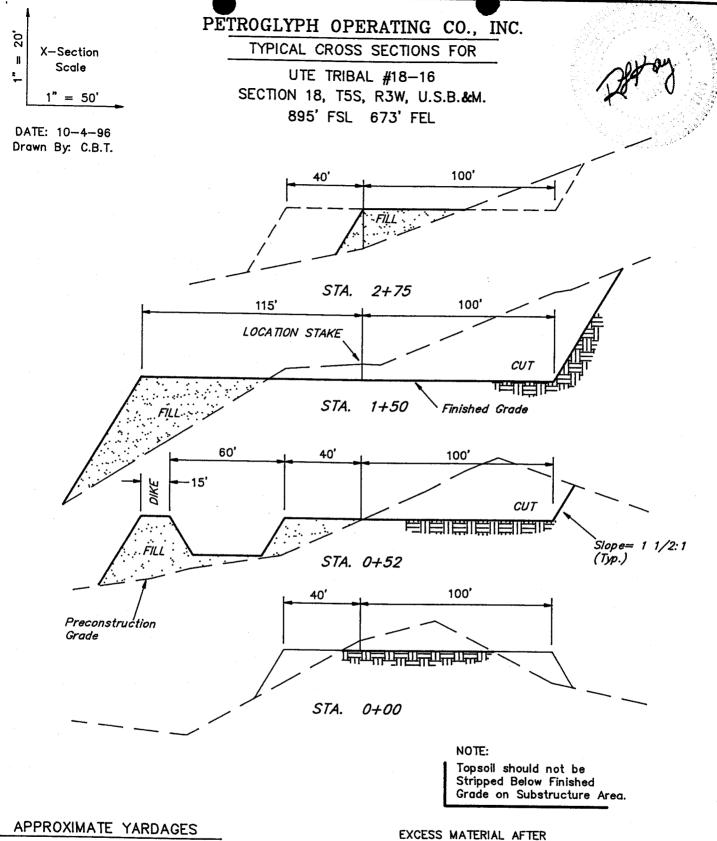
#### Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

Date

13





(12") Topsoil Stripping = 1,670 Cu. Yds.

Remaining Location = 7,450 Cu. Yds.

> TOTAL CUT = 9,120 CU.YDS.

> FILL = 6,410 CU.YDS.

EXCESS MATERIAL AFTER

5% COMPACTION

= 2.370 Cu. Yds.

Topsoil & Pit Backfill

= 2,370 Cu. Yds.

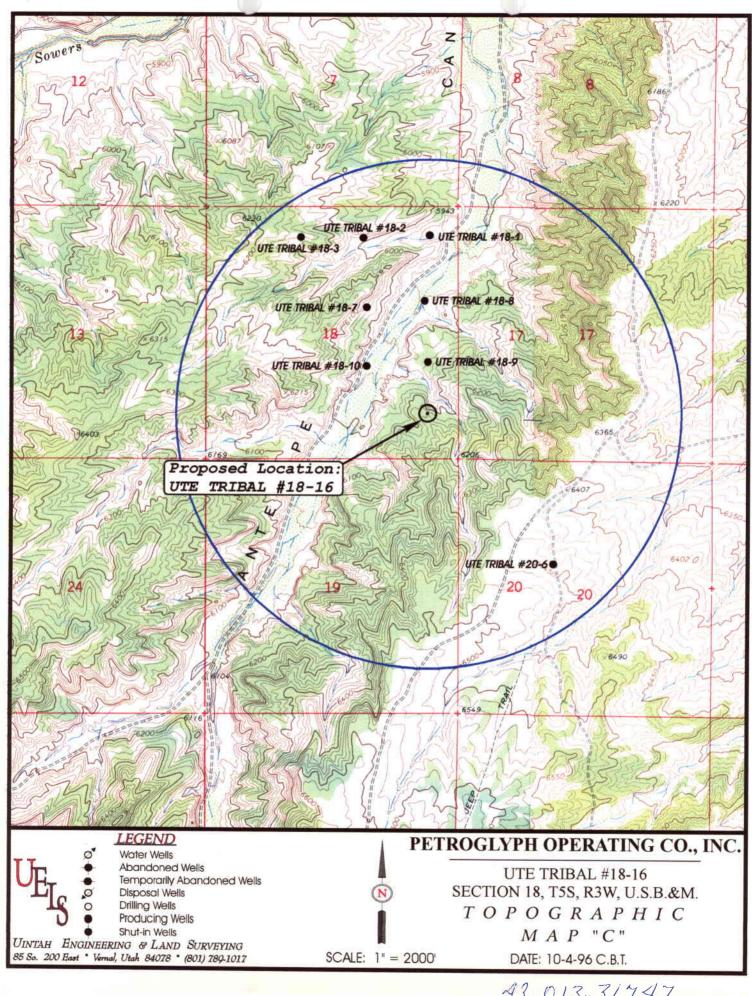
(1/2 Pit Vol.)

**EXCESS UNBALANCE** 

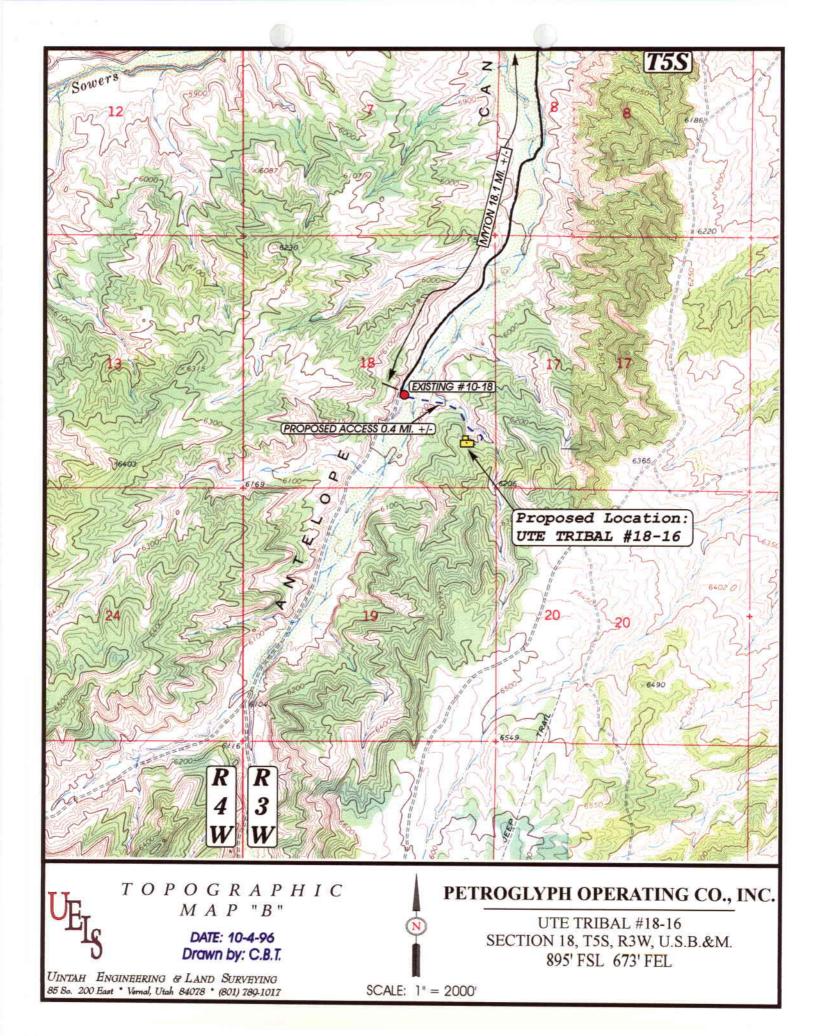
O Cu. Yds.

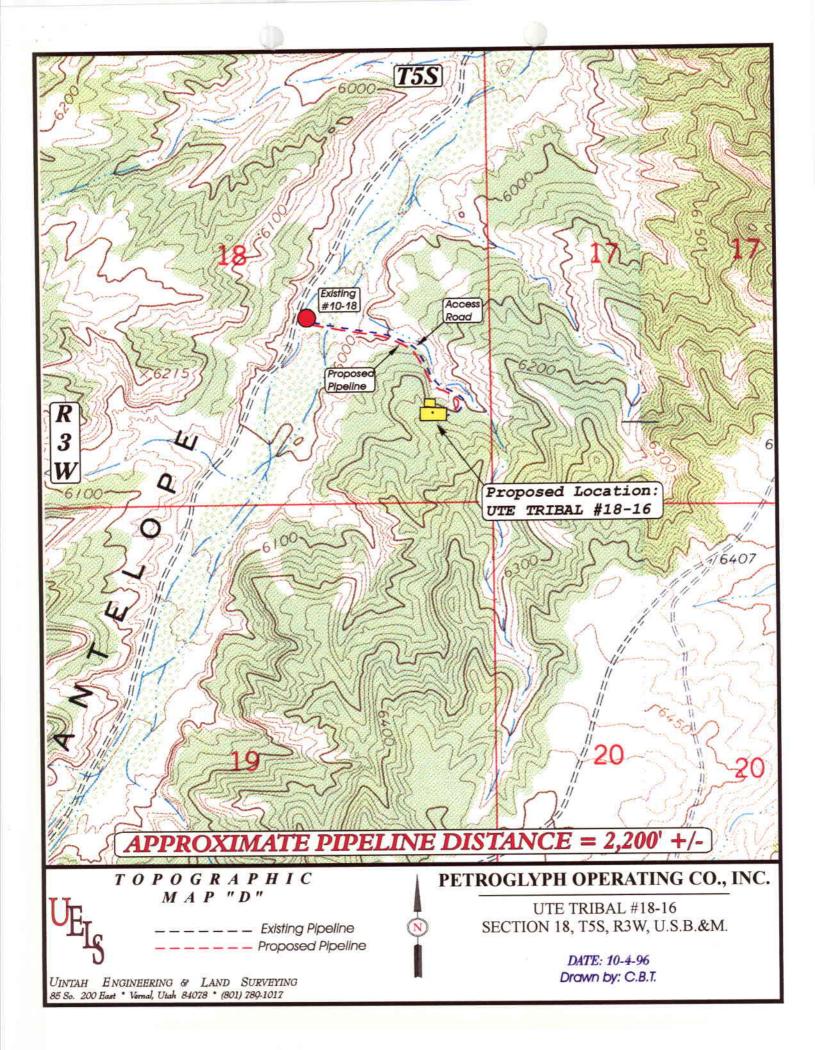
(After Rehabilitation)

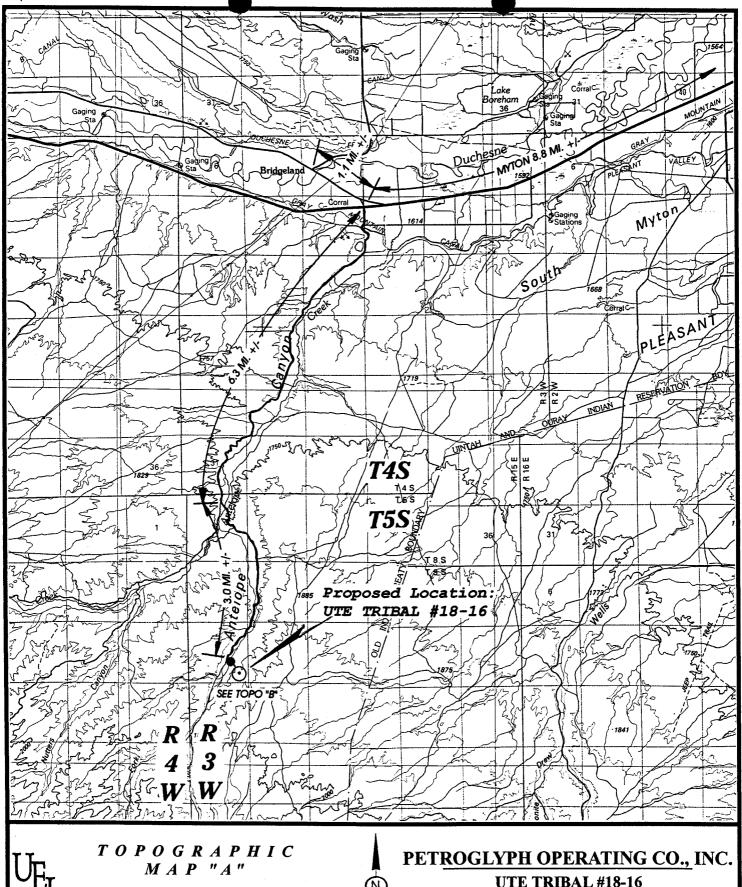
UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017



43-013-31747





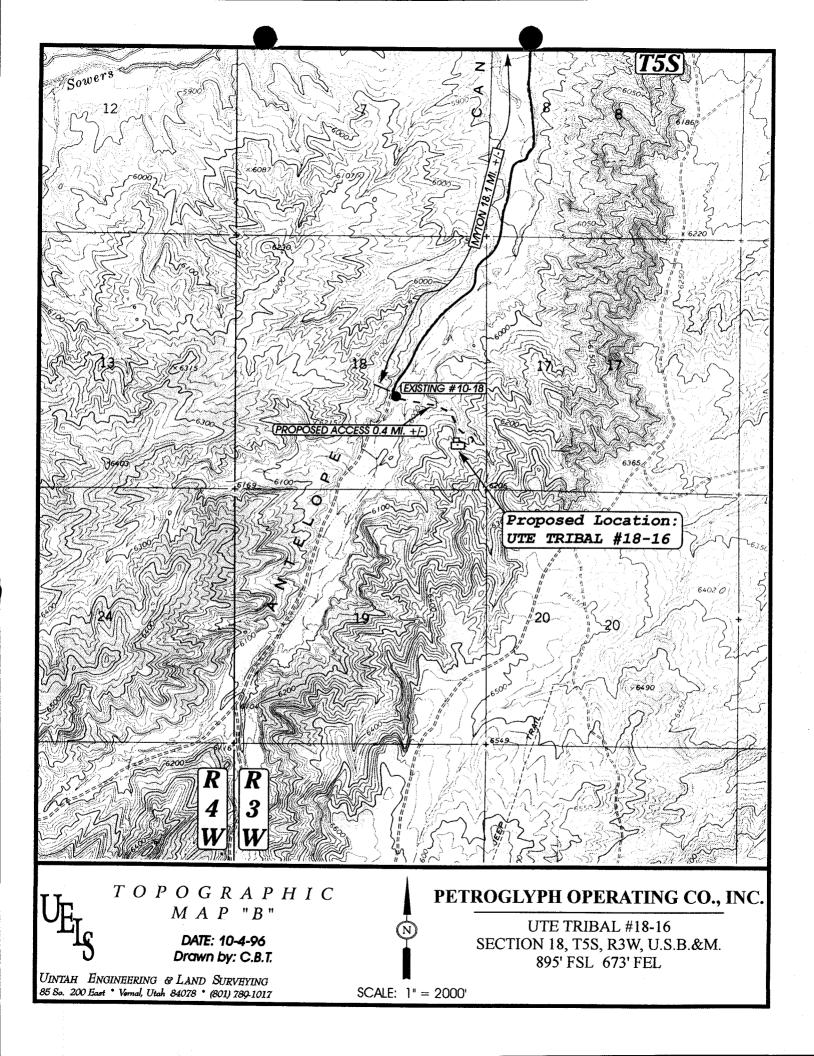


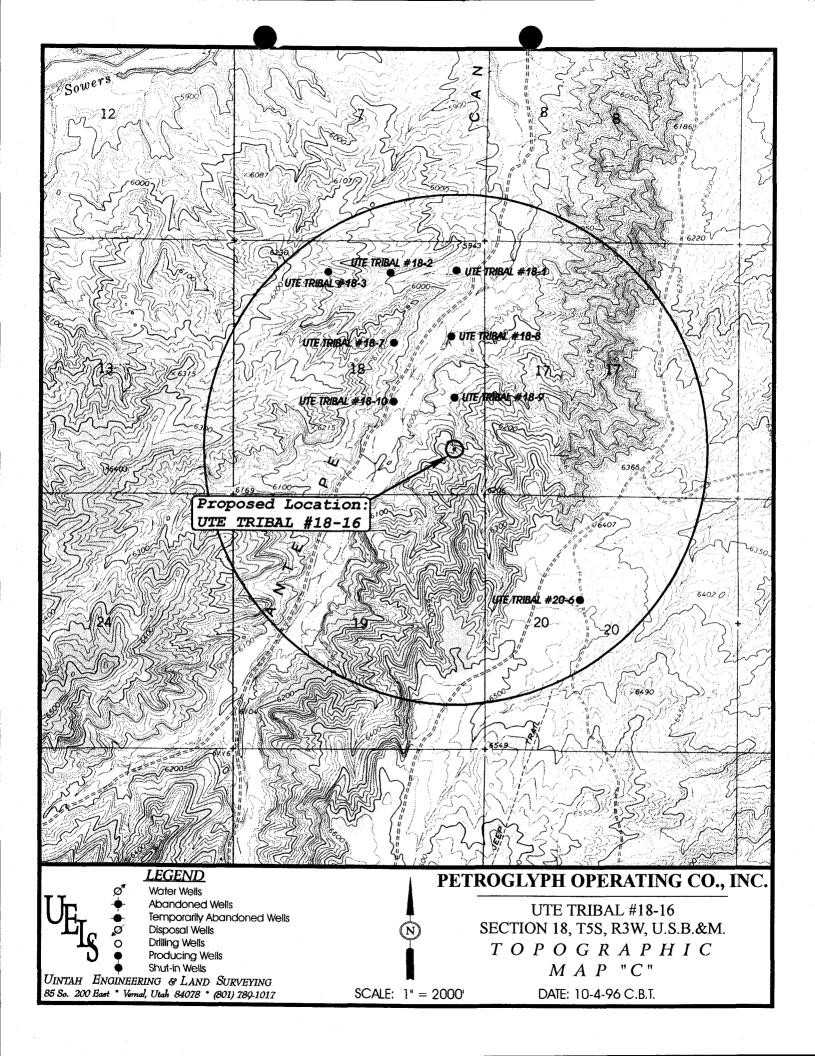
DATE: 10-4-96 Drawn by: C.B.T.

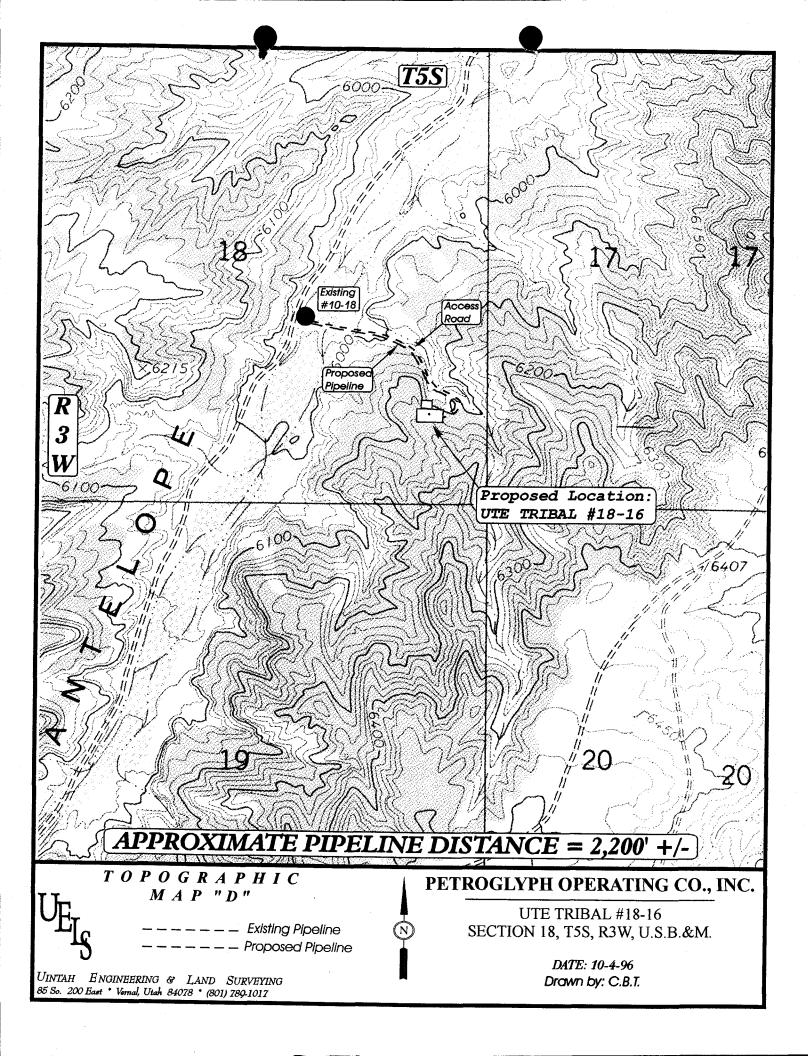
UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East \* Vornal, Utah 84078 \* (801) 789-1017



**UTE TRIBAL #18-16 SECTION 18, T5S, R3W, U.S.B.&M.** 895' FSL 673' FEL









APD RECEIVED: 11/18/96 API NO. ASSIGNED: 43-013-31747 WELL NAME: UTE TRIBAL 18-16 OPERATOR: PETROGLYPH OPERATING CO (N3800) PROPOSED LOCATION: INSPECT LOCATION BY: SESE 18 - T05S - R03W SURFACE: 0895-FSL-0673-FEL TECH REVIEW Initials Date BOTTOM: 0895-FSL-0673-FEL DUCHESNE COUNTY 272 200 Engineering ANTELOPE CREEK FIELD (060) Geology LEASE TYPE: IND LEASE NUMBER: 14-20-H62-3513 Surface PROPOSED PRODUCING FORMATION: GRRV RECEIVED AND/OR REVIEWED: LOCATION AND SITING: R649-2-3. Unit: / Plat Bond: Federal [ State ] Fee [] (Number 80 4556 ) R649-3-2. General.  $\mathbf{V}$  Potash  $(\mathbf{Y}\overline{/\mathbf{N}})$  $\overline{I}$  Oil shale (Y/N)✓ R649-3-3. Exception. ✓ Water permit Number 43-/0162 )
N RDCC Review (Y/N) Drilling Unit. Board Cause no: (Date: Date: COMMENTS: STIPULATIONS:

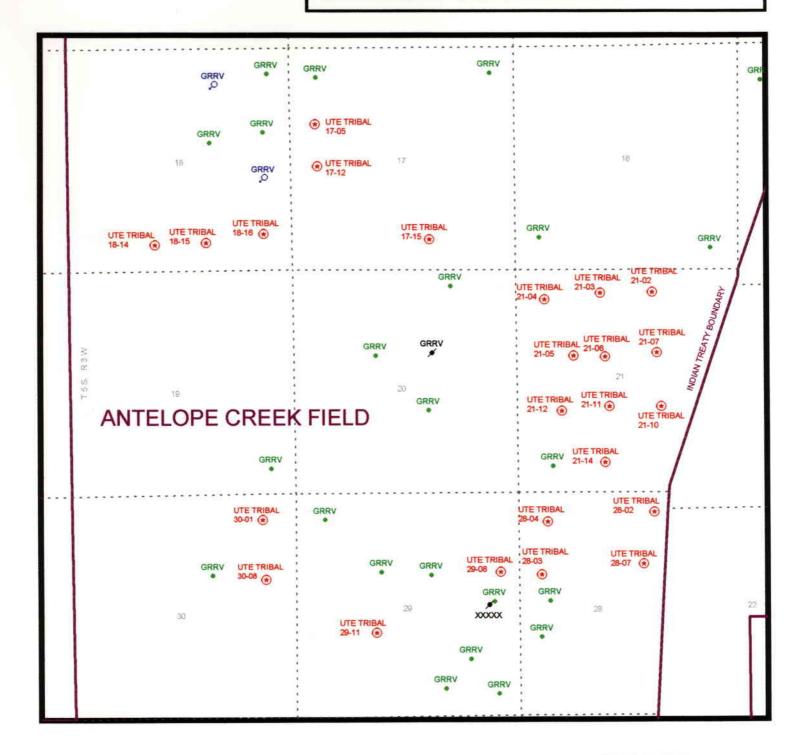
**OPERATOR: PETROGLYPH** 

FIELD: ANTELOPE CREEK (060)

SEC. TWP. RNG: 18 & 21, T5S R3W

**COUNTY: DUCHESNE** 

UAC: R649-3-2 & R649-3-3



PREPARED:

**DATE: 21-NOV-96** 

NOV. 1 9 1896

REPLY TO

Superintendent, Uintah & Ouray Agency

SUBJECT:

TO:

Concurrence Letter for PETROGLYPH OPERATING COMPANY Ute Tribal #18-14, SENW Sec. 18, T5S, R3W, USB&M Ute Tribal #18-15, NENW Sec. 18, T5S, R3W, USB&M

Ute Tribal #18-16, SESE Sec 18,T5S, R3W, USB&M

**Bureau of Land Management, Vernal District Office Attention: Minerals and Mining Division** 



We recommend approval of the Application for Permit to Drill on the subject well.

Based on available information received on November 19, 1996, we cleared the proposed location in the following areas of environmental impact.

YES x	_NO	Listed threatened or endangered species	
YES _x_	_ NO	Critical wildlife habitat	
YESx_	NO	Archaeological or cultural resources	
YES	NO	Air quality aspects (to be used only if	RECEIVED
		project is in or adjacent to a Class I area of attainment	NOV 2 2 1996
YES	NO	Other (if necessary)	

COMMENTS: The Ute Tribe Energy & Minerals is recommending the following criteria to be adhered during all phases of construction activities.

- 1. The Ute Tribe Energy and Minerals Department is to notified 48 hours prior to construction, as a Tribal Technician is to monitor construction.
  - 2. A 50 foot corridor rights-of-way shall be granted with the following:
    - A. Access roads shall be limited to 22 feet, except as granted for sharp turns.
    - B. Surface pipelines shall be limited to 13 feet.
    - C. Buried pipelines shall be limited 15 feet, and will be monitored by Tribal Technician.
- 3. Petroglyph Operating Company will assure the Ute Tribe that any/all contractors and any subcontractors has acquired a Tribal Business License and have access permits prior to construction.
- 4. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
- 5. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- 6. The personnel for the Ute Tribe Energy & Mineral Department should be consulted should cultural remains from subsurface deposits be exposed or identified during construction.
- 7. All mitigation stipulations contained in the Bureau of Indian Affairs combined site specific Environmental Analysis (EA) will be strictly adhered.
- Upon completion of Application for Permit to Drill and Right-of-way, the Ute Tribe Energy & Minerals Resource Department will be notified by Petroglyph Operating Company so that a Tribal Technician can verify Affidavit of Completion's.

PTIONAL FORM NO. 10 (REV. 1-80) GSA FPMR (41 CFR) 101-11.6 5010-114

# U.S. GPO: 1988-201-760

## SITE SPECIFIC ENVIRONMENTAL ANALYSIS

#### 1.0 PROPOSED ACTION

Petroglyph Operating Co., Inc. is proposing to drill oil well #18-16, and construct approximately 2200 feet of steel surface production pipeline, and approximately 2080 feet of access road..

#### 2.0 ALTERNATIVE ACTIONS

- A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.
- B. NO ACTION: Under the no action alternative the proposed action would not be implemented.
- C. OTHER: NA

#### 3.0 PERMITTEE/LOCATION

- A. Permittee- Petroglyph Operating Co., Inc.
- B. Date 10-7-96
- C. Well number- 18-16
- D. Right-of-way-Pipeline R\W approx.2200 feet, access road 2080 feet.
- E. Site location- SESE, Section 18, T5S, R3W, USB&M.

#### 4.0 SITE SPECIFIC SURVEY

#### A. SITE DESCRIPTION

- 1. Elevation (feet) 5994
- 2. Annual precipitation (inches) 8-12
- Topography- valley bottom
- 4. Soil- The soil texture is (0 to 6") gravely shale loam with moderate permeability, silt loam across Antelope Creek.

#### B. VEGETATION

- Habitat type is upland shrub, & upland p/j.
- 2. Percent Ground Cover- estimated to be 40%.
- 3. Vegetation consists of approximately 20% grasses, 70% shrubs, 10% forbs. The main variety of grasses are squirrel tail, Indian rice, poa, needle & thread, bluebunch wheat, galleta, and blue grama. Forbs are astragalus, mustard, lambs quarter, globe mallow, buck wheat, & annuals. Shrubs consist of shadscale, greasewood, black sage, winter fat, snake weed.

- 4. Observed Threatened & Endangered species: None.
- 5. Potential For Threatened & Endangered species: Slight
- 7. Observed Noxious Weeds: None

#### 8. AFFECTED ENVIRONMENTAL

1. There are no surface damages as a result of the initial survey.

#### 4.1 WILDLIFE

#### A. POTENTIAL SITE UTILIZATION

- 1. Big Game-The area is used throughout the year by mule deer, elk, and antelope.
- 2. Small Game-The area is used by cottontail rabbit.
- 3. Raptor- Various species of raptors use this area for habitat. Raptors which are observed using the area are Golden eagles, Redtail hawk, & Kestrel. Ferruginous hawk hunt in the area and there is an active nest located approximately 2.0 miles south east of this site in Section 20, T5S, R3W, USB&M.
- 5. Non-Game Wildlife- Animal species which have been observed using this area are black tail jack rabbit, coyote, fox, badger, and various species of reptiles, and song birds.
- 6. Threatened & Endangered Species: No T&E species are reported using the area of this project.

#### 4.2 PRESENT SITE USE

#### A. USAGE

	acres
Rangeland	4.22
Irrigable land	0
Woodland	0
Non-Irrigable land	4.22
Commercial timber	0
Floodplain	0
Wetland	0
Riparian	O
Other:	0

#### 4.3 CULTURAL RESOURCES

#### A. CULTURAL SURVEY

Cultural Resource Surveys were performed by James A.

Truesdale, an Independent Archaeologist.

#### 5.0 ENVIRONMENTAL IMPACTS

#### A. SURFACE ALTERATIONS

		acres
1.	Access road	1.45
2.	Well site	1.26
3.	Pipeline right-of-way	1.51
4.	Corridor right-of-way	0.00
5.		4.22

#### B. VEGETATION/LANDSCAPE

- Production loss (AUM's)/year: 0.28
- 2. Permanent scar on landscape: Yes x No
- 3. Potential impacts to Threatened & Endangered species: Yes No X

#### C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any possible point source of water pollution.

The area is presently used as rangeland. In recent years the area has been permitted for livestock grazing, but at the present time no permits have been issued for the area. This project will reduce livestock grazing by approximately 0.28 AUM/year.

The area is not used as irrigated cropland and a water right has not been designated for the area.

#### D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be an insignificant reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species but is important habitat for the Ferruginous hawk. The area is important winter range for big game.

Ferruginous Hawks use this area for nesting and hunting. There is an nest in Section 20.

#### 6.0 MITIGATION STIPULATIONS

#### A. VEGETATION/LANDSCAPE

Before the site is abandoned the company will be

required to restore the well site and right-of-ways to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.

2. Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

#### B. SOILS/RANGE/WATERSHEDS

- Soil erosion will be mitigated by reseeding all disturbed areas.
- 2. The pipeline will be constructed to lay on the soil surface, and the right-of-way will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way.

Where pipelines do not parallel roads but cross country between stations, they shall be welded in place at wellsites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

- 3. An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the surplus oil and mud, etc will be buried a minimum of 3.0 feet below the surface of the soil.
- 4. A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.
- 5. Although there is a 30 foot right-of-way the bladed area of the access road will be limited to 22 feet in all areas except where deep cuts and fills are required, sharp turns are required, or at the intersections with other roads.

#### C. WILDLIFE/VEGETATION/THREATENED & ENDANGERED SPECIES

Because the wellsite is located more than 1/2 mile from a Ferruginous hawk nest this wellsite may be constructed and drilled at any time throughout the year.

#### D. CULTURAL RESOURCES

Cultural resource surveys were performed by James A. Truesdale. The consultant recommends clearance of the project as it is presently staked.

#### E. UTE TRIBAL REGULATIONS

- (1). Prior to commencing surveys or construction on the U&O Indian Reservation the operator, and any of its subcontractors, shall acquire access permits and business permits from the Ute Indian Tribe.
- (2). Prior to the commencement of construction, the operator shall notify the Ute Tribal Department of Energy and Minerals of the date construction shall begin.

#### 7.0 UNAVOIDABLE ADVERSE IMPACTS

#### A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point surface use plan.

- B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.
  - 1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated environmental impacts will continue to influence the surrounding area for the productive life of the well.
  - 2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

#### C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

#### 8.0 CUMULATIVE IMPACTS

#### A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is emphasized to minimize the adverse environmental impacts.

#### 9.0 NEPA COMPLIANCE

#### A. RESEARCH/DOCUMENTATION

Based on available information, 10-17-96, the proposed location in the following areas of environmental impacts has been cleared:

<u>X</u>	Yes	No	Listed Threatened & Endangered
			species
<u>X</u>	Yes	No	Critical wildlife habitat
<u>X</u>	Yes	No	Historical and cultural resources

#### 10.0 REMARKS

#### A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

#### 11.0 RECOMMENDATIONS

#### A. APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

10-17-96

Representative - BIA Land

Operations, Uintah and Ouray

Agency

#### 12.0 DECLARATION

#### A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

0/18/96 Date

Superintendent,

Uintah and Ouray Agency

#### 14.0 CONSULTATION

#### A. REPRESENTATIVES/ORGANIZATION

Dale Hanberg- BIA
Ed Trotter-Petroglyphs
Lonnie Nephi-UTEM
Stan Olmstead-BLM
B:\EAPetro.18B

COAs Page 1 of 9 Well No.: Ute Tribal 18-16

# CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.
Well Name & Number: Ute Tribal 18-16
API Number: 43-013-31747
Lease Number: <u>14-20-H62-3513</u>
Location: SESE Sec. 18 T.5S R.3W

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

COAs Page 2 of 9 Well No.: Ute Tribal 18-16

#### CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

#### A. DRILLING PROGRAM

# 1. <u>Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered</u>

Report <u>ALL</u> water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a <a href="Mailto:2M">2M</a> system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

COAs Page 3 of 9 Well No.: Ute Tribal 18-16

#### 4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

#### 5 .Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

#### 6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

COAs Page 4 of 9 Well No.: Ute Tribal 18-16

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

COAs Page 5 of 9 Well No.: Ute Tribal 18-16

#### 7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

COAs Page 6 of 9 Well No.: Ute Tribal 18-16

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077 Petroleum Engineer

Wayne P. Bankert (801) 789-4170
Petroleum Engineer

Jerry Kencka (801) 781-1190 Petroleum Engineer

BLM FAX Machine (801) 781-4410

COAs Page 7 of 9 Well No.: Ute Tribal 18-16

#### EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

COAs Page 8 of 9 Well No.: Ute Tribal 18-16

#### SURFACE CONDITIONS OF APPROVAL

The Surface Use Conditions of Approval all come from the BIA Concurrence letter and Environmental Analysis Mitigation Stipulations.

#### Concurrence Letter:

- 1. The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.
- 2. A 50 foot corridor rights-of-way shall be granted with the following: Access roads shall be limited to 22 feet, except as granted for sharp turns. Surface pipelines shall be limited to 13 feet. Buried pipelines shall be limited to 15 feet, and will be monitored by a Tribal Technician.
- 3. Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.
- 4. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
- 5. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- 6. The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.
- 7. All mitigation Stipulations from the BIA combined site specific Environmental Analysis will be strictly adhered to.
- 8. Upon completion of APD and Right-of-way construction, the Ute Tribe Energy & Mineral Department will be notified by Petroglyph so that a Tribal Technician can verify an Affidavit of Completion.

Environmental Analysis Mitigation Stipulations:

#### VEGETATION/LANDSCAPE

- 1. Before the site is abandoned, the company will be required to restore the well site and right-of-ways to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.
- 2. Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

COAs Page 9 of 9 Well No.: Ute Tribal 18-16

#### SOILS/ RANGE/ WATERSHEDS

- 1. Soil Erosion will be mitigated by reseeding all disturbed areas.
- 2. The pipeline will be constructed to lay on the soil surface, and the right-of-way for the pipeline will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines cross country between stations, they shall be welded in place at wellsites or on roads and then pulled into place with suitable equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
- 3. An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the cuttings and mud, etc. left in them to be buried will be buried a minimum of three feet below the surface of the soil.
- 4. A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.
- 5. Although there is a 50 foot right-of-way, the bladed areas of the access road will be limited to 22 feet in all areas except where deep cuts and fills are required, or sharp turns are required, and at intersections with other roads.

#### WILDLIFE/VEGETATION/ THREATENED & ENDANGERED SPECIES

Because the wellsite is located more than one half mile from a Ferruginous Hawk nest, this well site does not have a seasonal restriction on construction and drilling.

# UNITED STATES UNITED STATES (Other is reversely to the control of the interior)

SUBMIT IN TO CATE\*

(Other instructures on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

	DEPARTMEN					5. LEASE DESIGNATION AND SERIAL NO.
****	BUREAU OF	LAND MANA	GEME	NT		14-20-Н62-3513
APPLI	CATION FOR P	ERMIT TO	DRIL	L OR DEEPEN		6. IF INDIAN, ALLOTTER OR TRIBE NAME
1a. TYPE OF WORK	ILL X	DEEPEN				UTE INDIAN TRIBE 7. UNIT AGREEMENT NAME
b. TYPE OF WELL		DEEPEN	LJ			
WELL (A) W	ELL OTHER			INGLE MULTIP	LE	8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR						UTE TRIBAL
PETROGLYPH  3. ADDRESS AND TELEPHONE NO.	OPERATING COM	IPANY, INC	<u>c.</u>	· · · · · · · · · · · · · · · · · · ·		9. API WELL NO.
	7, ROOSEVELT	UT 840	066			#18-16  10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (R At surface	eport location clearly and	in accordance wi	th any i	State requirements.*)		ANTELOPE CREEK
	FSL & 673' F	EL SE/SE				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon		E CL/CL	<i>h</i>			ARD SURVEI UE AREA
14 0400.000			<u> 43-</u>	013-31747	7	Sec. 18, T5S, R3W
	AND DIRECTION FROM NEAD SOUTHWEST OF			E*	.	12. COUNTY OR PARISH 13. STATE
15. DISTANCE FROM PROPO	SED*	MITON, U.		O. OF ACRES IN LEASE		DUCHESNE UTAH FACRES ASSIGNED
PROPERTY OR LEASE L	INE, FT. 0/3'			40		is well 40
18. DISTANCE FROM PROP	OSED LOCATION®			ROPOSED DEPTH	20. ROTAE	T OR CABLE TOOLS
TO NEAREST WELL, DO OR APPLIED FOR, ON THE	RILLING, COMPLETED, IS LEASE, FT.			5934'	ROT	ARY
21. ELEVATIONS (Show who		· · · · · · · · · · · · · · · · · · ·	•			22. APPROX. DATE WORK WILL START*
6142.0'GRAD	ED GROUND					NOVEMBER, 1996
23.		PROPOSED CASI	NG ANI	CEMENTING PROGRA	Л	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#		250'		x class "G" + 2% CaC12
7 7/8	5 1/2	15.5#		5934'		#/sx celloflake. POZMIX + 2% GEL + 10%
				•	OF IN'S LIGHT LCM TO OR FRI	FO 400' ABOVE ALL ZONES FEREST (+ 10% EXCESS). CEMENT (11 PPG $\pm$ ) + D 200' ABOVE OIL SHALE ESH WATER INTERVALS (+ CESS).
OPERATOR OF ' pc: Utah Di Bureau (	PERATING COMF THE SUBJECT W vision of Oil of Indian Aff be, Fort Duch	ELL UNDER , Gas, ar	R BOI	ND # BO 4556. ining DECuchesney Utah	EIV	VE TOOS
N ABOVE SPACE DESCRIBI deepen directionally, give pertinal.	E PROPOSED PROGRAM: If neutral data on subsurface location	ns and measured and to	rue vertic	on present productive zone al depths. Give blower present	nter program_1	newall did Ge zone. If proposal is to drill or fany.  DATE 11-6-96
(This space for Feder	NOTICE OF	APPROV	AL	APPROVAL DATE	OITIONOC T	ONS OF APPROVAL ATTACHED O OPERATOR'S COPY  uld entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL	Tengle	ACT		sistant Field Manage Mineral Resources	er	NOV 2 6 1996



Michael O. Leavitt Governor Ted Stewart Executive Director

James W. Carter Division Director 1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax)

801-538-7223 (TDD)

January 14, 1997

Petroglyph Operating Company, Inc. P.O. Box 607 Roosevelt, Utah 84066

Re: Ute Tribal 18-16 Well, 895' FSL, 673' FEL, SE SE, Sec. 18, T. 5 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31747.

11/1

Associate Director

lwp

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator:		Petroglyph Operating Company, Inc.						
Well Name	& Number:	Ute Tribal 18-16						
API Number	***************************************	43-013-31747						
Lease:		14-20-H62-3513		***************************************				
Location:	SE SE	Sec. 18 T.	5 S. R.	3 W.				

#### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements
Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews at (801)538-5334 or Mike Hebertson at (801)538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: PETROGLYPH OPERATING Well Name: UTE TRIBAL 18-16

Location: SEC. 18 - T5S - R3W Project ID: 43-013-31747

Design Parameters: Design Factors: Mud weight (8.90 ppg) : 0.462 psi/ft Collapse : 1.125 Shut in surface pressure : 2387 Burst : 1.00 Internal gradient (burst) : 0.060 psi/ft 8 Round : 1.80 (J) Annular gradient (burst) : 0.000 psi/ft Buttress : 1.60 (J) Tensile load is determined using air weight Other : 1.50 (J)

	Length (feet)		Weight (lb/ft)	Grade	e Joir		Depth feet)	Drift (in.)	Cost
1	5,934	5.500	15.50	<b>M-</b> 5(	) ST&(	C	5,934	4.890	
	Load (psi)	Collapse Strgth (psi)		Burst Load (psi)	Min Int Strgth (psi)		Load (kips)	Tension Strgth (kips)	S.F.
1	2744	3650	1.330	2744	4550	1.66	91.98	186	2.02 J

Body Yield

: 1.50

(B)

Prepared by : MATTHEWS, Salt Lake City, Utah

Date

01-14-1997 :

Remarks

GREEN RIVER

Minimum segment length for the 5,934 foot well is 1,500 feet.

SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas

temperature of  $114\,^{\circ}F$  (Surface  $74\,^{\circ}F$  , BHT  $157\,^{\circ}F$  & temp. gradient  $1.400\,^{\circ}/100$  ft.)

String type: Production

Service rating is "Sweet"

The mud gradient and bottom hole pressures (for burst) are 0.462 psi/ft and

2,744 psi, respectively.

NOTE:

The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.

Costs for this design are based on a 1987 pricing model. (Version 1.07)

Ä	

DEDADT		ENCOUNTERED	DUDING DE	ori '
DEFUDI	VE WALER	FIGURATION FROM	13115UN(* 132	~14

1.	Well name and number: Ute Tribal 18-16	MAR 0 3 1997
	API number: 43-013-31747	DIV. OF OIL, GAS & MINING
2.	Well Location: QQ SESE Section 18 Township 5S Range 3V	County Duchesne
3.	Well operator: Petroglyph Operating Company, Inc.	
	Address: P.O. Box 607	
	Roosevelt, UT 84066	Phone:
4.	Drilling contractor: <u>Union Drilling Company</u>	
	Address: P.O. Drawer 40	
	Buckhannon, WV 26201	Phone: (304) 472-4610

5. Water encountered (attach additional pages as needed):

DE	PTH	VOLUME	QUALITY
FROM	ТО	(FLOW RATE OR HEAD)	(FRESH OR SALTY)
	301		
33/	400'	1/2" Stream	Soltrater

6. Formation	on tops:					<del></del> <del>4,</del>			<del></del>
	en e								
	gardenia essa, qua			at .					
If an analys	sis has been ma	de of the water end	countered. n	olease attach a co	pov of the	report to	this form.		
		ort is true and cor					2-4-97		<u></u>
Name & Si	gnature:	dane K	elf	<u> </u>		Title: 0	perations	: Coordin	ator
(7/93)									

STATE OF HEAR DIVISION OF UIL, GAS AND MINING ENTITY ACTION FORM - FORM 6

OPERATOR Petroglyph Operating Company, Inc.

OPERATOR ACCT. NO. N 3800

Date

Phone No. ( 801) 722-2531

ADDRESS P.O. Box 1839

Hutchinson, KS 67504-1839

	·	7	<i>/</i>								
ACTION	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME			HELL	LOCATIO	N	SPUD	EFFECTIVE
A	99999	12084	43-013-31747	Ute Tribal 18—16	90	SC 10	TP	RG	COUNTY	· DATE	DATE
	UMMENTS:	1/2001		00e 1110a1 10-10	SESE	18	5S	3W	Duchesne	1–28–97	
161.6 1 6	Ormeral 3:	Ute Ti	ribal 18-16 will	tie into tank battery at the Ute	Tribal 18-	-15					
·	-	E	intity added	13.4-97. Lec							
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A - B - C -	- Establish - Add new wo - Re-assion	new entity ell to exist well from o	on back of form) for new well (sin ing entity (group ne existing entit	or unit well)		`			Signature Dea	K.Bell nna K. Bell	
U ·	- ke-assign - Other (exp	well from o Dain in com	ne existing entit ments section)	y to a new entity					Operations Co	ordinator	1-31-97

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Form 3160-4
(November 1983)
(formerly 9-330)

# **UNITED STATES**

UBMIT	IN	DUE	L	CAT	E
		_			

Form approved. deet Bureau No. 1004-0137 (Expires August 31, 1985)

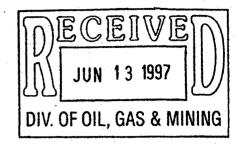
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT 5. LEASE DESIGNATION AND SERIAL NO. 14-20-H62-3513 6. IF INDIAN, ALOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG\* Ute Indian Tribe 1.a. TYPE OF WELL: Oil Well X Gas Well Other 7. UNIT AGREEMENT NAME 14-20-H62-4650 b. TYPE OF COMPLETION: 8. FARM OR LEASE NAME New Well X Workover Deepen Plug Back Diff. Reserv. Lite Tribal Other 2. NAME OF OPERATOR 9. WELL NO. Petroglyph Operating Company, Inc. 18-16 3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT P.O. Box 1839, Hutchinson, KS 67504-1839 Antelope Creek 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\* 11. SEC., T., R., M., OR BLOCK AND 895' FSL & 673' FEL SE SE At surface SURVEY OR AREA Sec.18, T5S, R3W At top prod. interval reported below 14. PERMIT NO. DATE ISSUED 13. State 12. County or Parish At total depth 5936' RTD 43-013-31747 Duchesne Utah 15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPLETED (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 19. ELEV. CASINGHEAD 1/28/97 2/5/97 3/23/97 6142 20. TOTAL DEPTH, MD & TVD 21. PLUG BACK T.D., MD & TVD 23. INTERVALS ROTARY TOOLS CABLE TOOLS 22. IF MULTIPLE COMPL., HOW MANY\* 5936 5888 DRILLLED BY 24. PRODUCING INTERVAL(S) OF THIS COMPLETION -- TOP, BOTTOM, NAME (MD AND TVD)\* 25 WAS DIRECTIONAL SURVEY MADE Green River 26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED CNL & ATT CBL 3-28-97 28. 6-13-97 CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT, LB./FT. DEPTH SET (MD) HOLE SIZE AMOUNT PULLED CEMENTING RECORD 8-5/8" 24# 414' 12-1/4" 250 sx Type V + 2% CaCl2 5-1/2" 15.5# 5931 7-7/8" 90 sx HiFill + 330 sx Thixotropic LINER RECORD TUBING RECORD SIZE TOP BOTTOM (MD) SACKS CEMENT\* DEPTH SET (MD) PACKER SET (MD) SCREEN (MD) SIZE 2-7/8" 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. CONFIDENTIAL DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 4734 - 4740 25 shots 4734 - 4740 4000 gal. fluid & 15,000# prop. 4670 - 4678 33 shtos 6670 gal, fluid & 22,500# prop. 4670 - 4678 4354 - 4360 25 shots 4354 - 4360 5600 gal, fluid & 25,300# prop. 33.\* PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) DATE FIRST PRODUCTION WELL STATUS (Producing or shut-in) 5/10/97 pumping 2 1/2 x 1 3/4 x 16 producing DATE OF TEST GAS-OIL RATIO HOURS TESTED CHOKE SIZE PROD'N FOR WATER - BBI. OIL - BBL. GAS - MCF. 5/16/97 24 TEST PERIOD 0 18 FLOW. TUBING PRESS. CASING PRESSURE CALCULATED OIL - BBL OIL GRAVITY - API (CORR.) GAS - MCF. WATER - BBL. 850 24 HR, RATE 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Sold, used for fuel **Dave Schreiner** 35. LIST OF ATTACHMENTS 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records 6/10/97 Geology/Petroleum Engineering Technic (See Instructions and Spaces for Additional Data on Reverse, Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly or willfully to make to any department or agency of or representations as to any matter within its jurisdiction. NFIDENTIAL

1 2 1997

DIV. OF OIL, GAS & MINING

drill-stem, tests, including depth interval tested,  FORMATION TOP	X Marker 4330	Douglas Creek 4470	B Limestone 4864	Castle Peak 5422	Basal Carbonate 5832										
, cushion used, time t  BOTTOM															
drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):  FORMATION TOP BOTTOM DESCRIPTION, CONTENTS, ETC.											《《《··································				
38.	NAME						# # 100 pm								
GEOLOGIC MARKERS  TOP	MEAS. DEPTH TRUE VERT.  DEPTH														

June 10, 1997



Vicky Dyson State of Utah Division of Oil, Gas & Mining 1594 W. North Temple, Ste.1210 Salt Lake City, UT 84114

Ms. Dyson:

# CONFIDENTIAL

Enclosed please find the logs listed below for the wells located in Duchesne County, Utah.

Well Name
Ute Tribal 18-14
Ute Tribal 18-16

Log CNL, AIT CNL, AIT 43013 31747 055 0360 18

I have received your requests for logs on the 30-02, 20-09 and 29-05. These logs are unavailable at the moment as they are being copied. I have requested rapid service on the copying and will forward these to you as quickly as possible.

Please hold these in confidence as permitted in division guidelines. If you need further information, please do not hesitate to call me at 316-665-8500.

Sincerely,

April Menzies

Petroleum Engineering/Geology Technician

april Menzies



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 200
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08

Ref: 8P-W-GW

DEC - 1 2006

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Steve Wall, District Manager Petroglyph Energy, Inc. 4116 West 3000 So. loka Lane Roosevelt, UT 84066

43.013.31747

5S 3W 18

Additional Well to Antelope Creek Area Permit

Accepted by the

Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

UIC Permit No. UT20736-00000

Well ID: UT20736-07415 Ute Tribal No. 18-16,

Duchesne County, Utah

Dear Mr. Wall:

The Petroglyph Operating Company, Inc. (Petroglyph) request to convert the former Green River Formation oil well Ute Tribal No.18-16 to an enhanced recovery injection well in the Antelope Creek Waterflood project is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization For Additional Well.

RE:

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Antelope Creek Waterflood UIC Area Permit No. UT20736-00000. Unless specifically mentioned in the enclosed Authorization For Additional Well, the Ute Tribal No.18-16 is subject to all terms and conditions of the UIC Area Permit UT20736-00000 as modified.

Please be aware that Petroglyph does not have authorization to begin injection operations into the well until all <u>Prior to Commencing Injection</u> requirements have been submitted and evaluated by the EPA, and Petroglyph has received written authorization from the Director to begin injection.

RECEIVED

DEC 0 4 2006

Printed on Recycled Paper

Prior to receiving authorization to inject, the EPA requires that Petroglyph submit for review and approval the following: (1) the results of a **Part I (Internal) mechanical integrity test** (MIT), (2) a **pore pressure** calculation of the injection interval, and (3) a completed **EPA Form No. 7520-12** Well Rework Record.

The initial Maximum Allowable Injection Pressure (MAIP) for the Ute Tribal No.18-16 was determined to be 1580 psig. UIC Area Permit UT20736-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a step rate test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Ms. Linda Bowling at (303) 312-6254 or 1.800.227.8917 (Ext. 6254). Please submit the required data to <u>ATTENTION: Linda Bowling</u>, at the letterhead address, citing <u>MAIL CODE: 8P-W-GW</u> very prominently.

Sincerely,

Stephen S. Tuber

D.L IN Thom

Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

encl: Authorization For Conversion of An Additional Well

EPA Form No. 7520-12 (Well Rework Record)

cc: without enclosures

Maxine Natchees, Acting Chairperson Uintah & Ouray Business Committee Ute Indian Tribe P.O. Box 190 Fort Duchesne, UT 84026

Chester Mills, Superintendent BIA - Uintah & Ouray Indian Agency P.O. Box 130 Fort Duchesne, UT 84026

#### cc: with enclosures

Mr. Kenneth Smith Executive Vice President and Chief Operating Officer Petroglyph Energy, Inc. 555 S. Cole Blvd Boise, ID 83709

Shaun Chapoose, Director Land Use Department Ute Indian Tribe P.O. Box 460 Fort Duchesne, UT 84026

Gilbert Hunt Technical Services Manager Utah Division of Oil, Gas, and Mining 1594 West North Temple - Suite 1220 Salt Lake City, UT 84114-5801

Fluid Minerals Engineering Office U.S. Bureau of Land Management-Vernal Field Office 170 South 500 East Vernal, Utah 84078

Lynn Becker, Director Energy and Minerals Department Ute Indian Tribe P.O. Box 70 Ft. Duchesne, UT 84026 bcc w/o enclosures:

Judy Hervig, 8TAP Nathan Wiser, 8ENF-UFO

PUTITI APPLOTED UITE INC. 2000 COTE.

PEP/	4			WELL	. REWO						
AME AND ADD	RESS OF PERMIT	TEE				NAME	AND ADDRES	S OF CONTRACTOR			
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				STATE	COUNTY	ļ			PERMIT NUMBER		
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a	nd complete.	lam awar	e that	there are	significan	it pena	ities for su	ıbmitting false i	nformation, including		
t/	ne possibility	of fine and	d impi	risonment	t. (Ref. 40	CFR 1	<i>44.32)</i> .				
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NAME AND O	FFICIAL TITLE (Ple	ase type or prin	,		*						
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## Prior to Beginning Injection Checklist

Pri	ior to beginning injection, the following items must be completed:
	X Completion Report / Well Rework Report
	X Injection Zone Pressure
	X Standard Annulus Pressure Test - MIT (Part I)
	Radioactive Tracer Survey - MIT (Part II)
	Temperature Survey - MIT (Part II)
	Oxygen Activation Log - MIT (Part II)
	Step Rate Test CBL/CET
	Remedial Cementing
	Other Corrective Action
	Injection Zone Fluid Sample
	Aquifer Exemption Determination
	Injection Zone Temperature
	Analysis of Source Fluid (injectate)
	Other
comments:	



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 200
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08

#### **AUTHORIZATION FOR ADDITIONAL WELL**

UIC Area Permit No: UT20736-00000

The Antelope Creek Waterflood Final UIC Area Permit No. UT20736-00000, effective July 12, 1994, authorizes injection for the purpose of enhanced oil recovery into multiple lenticular sand units which are distributed throughout the lower portion of the Green River Formation. On September 5, 2006, the permittee provided notice to the Director concerning the following additional enhanced recovery injection well:

Well Name:

EPA Well ID Number:

Location:

Ute Tribal 18-16

UT20736-07415

895 ft FSL & 673 ft FEL SE SE Sec. 18 - T5S - R3W Duchesne County, Utah

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20736-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20736-00000, as modified and as specified in the Well Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: DEC - 1 2006

Stephen S. Tuber

\*Assistant Regional Administrator Office of Partnerships and Regulatory Assistance

\* The person holding this title is referred to as the Director throughout the Permit and Authorization

Page 1 of 7

### WELL-SPECIFIC REQUIREMENTS

Well Name: <u>Ute Tribal 18-16</u> EPA Well ID Number: <u>UT20736-07415</u>

## <u>Prior to commencing injection operations, the permittee shall submit the following information and receive written Authority to Inject from the Director:</u>

- 1. a successful Part I (Internal) Mechanical Integrity Test (MIT);
- 2. pore pressure calculation of the proposed injection zone; and
- 3. completed Well Rework Record EPA Form No. 7520-12 and schematic diagram.

Approved Injection Zone: Injection is approved between the base of the Green River A Lime Marker, at approximately 3820 ft (KB)<sub>CBL</sub>, to the top of the Basal Carbonate, at approximately 5730 ft (KB)<sub>CBL</sub>.

<u>Maximum Allowable Injection Pressure (MAIP)</u>: The initial MAIP is <u>1580 psig</u>, based on the following calculation:

```
MAIP = [FG - (0.433)(SG)] * D, where

FG = 0.80 \text{ psi/ft} SG = 1.009 D = \underline{4354 \text{ ft}} (top perforation depth KB)

MAIP = \underline{1580 \text{ psig}}
```

UIC Area Permit No. UT20736-00000 also provides the opportunity for the permittee to request a change of the MAIP based upon results of a step rate test that demonstrates the formation breakdown pressure will not be exceeded.

#### Well Construction and Corrective Action: No Corrective Action is required.

Based upon the review of well construction and cementing records, including CBL, well construction is considered adequate to prevent fluid movement out of the injection zone and into USDWs.

#### Tubing: No Corrective Action is required.

2-3/8" or similar size injection tubing is approved; the packer shall be set at a depth no more than 100 ft above the top perforation.

#### Corrective Action for Wells in Area of Review: Some Corrective Action is required.

The following wells that penetrate the confining zone are within or proximate to a 1/4 mile radius around the Ute Tribal No. 21-07 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Well	Location	Corrective Action Required?
Ute Tribal No. 18-09	Sec. 18 - T5S - R3W	no
Ute Tribal No. 18-09K	Sec. 18 - T5S - R3W	no
Ute Tribal No. 18-15	Sec. 18 - T5S - R3W	yes – rerun the Cement Bond Log within one hundred eighty (180) days upon the receipt of this approval letter
Ute Tribal No. 19-01	Sec. 19 - T5S - R3W	no

<u>Demonstration of Mechanical Integrity</u>: A successful demonstration of Part I (Internal) Mechanical Integrity using a standard Casing-Tubing pressure test is required prior to injection and at least once every five years thereafter. EPA reviewed the cement bond log and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR 146.8 (a)(2). Therefore, further demonstration of Part II (External) Mechanical Integrity is not required at this time.

### Demonstration of Financial Responsibility: No Corrective Action is required.

The applicant has demonstrated financial responsibility in the amount of \$15,000 via a Surety Bond that has been reviewed and approved by the EPA.

Plugging and Abandonment: The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging after each plug is set. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation, 4354 ft (KB), with a minimum 20 ft cement plug on top of the CIBP.
- PLUG NO. 2: Set a minimum 246 ft cement plug inside of the 5-1/2" casing across the Trona Zone and the Mahogany Shale, between approximately 2554 ft (KB) to 2800 ft (KB).
- PLUG NO. 3: Set a minimum 200 ft cement plug on the inside and backside (unless preexisting backside cement precludes cement-squeezing this interval) of the 5-1/2" casing across the Green River, between approximately 1330 ft (KB) to 1530 ft (KB).
- PLUG NO. 4: Set a minimum 200 ft cement plug on the inside and backside (unless pre-existing backside cement precludes cement-squeezing this interval) of the 5-1/2" casing across the USDW, between approximately 983 ft (KB) and 1183 ft (KB).
- PLUG NO. 5: Set a minimum 50 ft cement plug on the backside of the 5-1/2" casing, across the surface casing shoe at 414 ft (KB) (unless pre-existing backside cement precludes cement-squeezing this interval.)
- PLUG NO. 6: Set a cement plug inside of the 5-1/2" casing, from at least 389 ft (KB) to 439 ft (KB).
- PLUG NO. 7: Set a cement plug on the backside of the 5-1/2" casing, from surface to a depth of at least 50 ft.
- PLUG NO. 8: Set a cement plug inside of the 5-1/2" casing from surface to a depth of at least 50 ft.

Cut off surface and 5-1/2" casing at least 4 ft below ground level and set P&A marker; submit Sundry Notices and all necessary data as required by the EPA and other regulatory agencies.

#### **Reporting of Noncompliance:**

- (a) <u>Anticipated Noncompliance</u>. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) <u>Compliance Schedules</u>. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the

operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

#### Twenty-Four Hour Noncompliance Reporting:

The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1.800.227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at 303.293.1788 if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

#### Oil Spill and Chemical Release Reporting:

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the National Response Center (NRC) 1.800.424.8802 or 202.267.2675, or through the NRC website at <a href="http://www.nrc.uscg.mil/index.htm.">http://www.nrc.uscg.mil/index.htm.</a>

#### Other Noncompliance:

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

#### Other Information:

Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

#### WELL-SPECIFIC CONSIDERATIONS

Well Name: <u>Ute Tribal 18-16</u> EPA Well ID Number: <u>UT20736-07415</u>

<u>Underground Sources of Drinking Water (USDWs)</u>: USDWs in the Antelope Creek Waterflood area generally may occur within the Uinta Formation, which extends from the surface to the top of the Green River Formation at approximately 1430 ft (KB). According to "Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92," the base of moderately saline ground water may be found at approximately 46 ft below ground surface at this well location. Based upon information reported by Petroglyph, the base of the USDW was found at 1083 ft (KB) in the Ute Tribal 18-16 well. Based on the analysis of the submitted CBL, the top of casing cement in this well is at approximately 1070 ft.

<u>Confining Zone</u>: The Confining Zone at this location is approximately 208 ft of interbedded limestone and shale between the depths of 3612 ft to 3820 ft (KB) which directly overlies the Injection Zone, based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log. Additional impermeable lacustrine shale beds above the Confining Zone provide for further protection for any overlying USDW.

<u>Injection Zone</u>: The Injection Zone at this well location is an approximately 1910 ft section of multiple lenticular sand units interbedded with shale, marlstone and limestone from the base of the Confining Zone at 3820 ft (KB) to the top of the Basal Carbonate Formation at 5730 ft (KB), based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log.

Well Construction: The CBL provided was not useful for the evaluation of cement bonding.

Surface Casing: 8-5/8" casing is set at 414 ft (KB) in a 12-1/4" hole, using 250 sacks cement

circulated to the surface.

Longstring Casing: 5-1/2" casing is set at 5931 ft (KB) in a 7-7/8" 5936 ft Total Depth hole with

a plugged back total depth (PBTD) of 5888 ft, cemented with 420 sacks

cement.

Top of Cement (TOC): 2370 ft (KB)

Perforations: top perforation: 4354 ft (KB) Bottom perforation: 4740 ft (KB)

Wells in Area of Review (AOR): Construction and cementing records, including cement bond logs (CBL) as available, for two wells in the 1/4 mile AOR that penetrated the confining zone were reviewed and found adequate to prevent fluid movement out of the injection zone and into USDWs.

Well	Casing Cement top
Ute Tribal No. 18-09	2654 ft (KB) <sub>CBL</sub>
Ute Tribal No. 18-09K	740 ft (KB) <sub>CBL</sub>
Ute Tribal No. 18-15	2034 ft (KB) <sub>CBL</sub>
Ute Tribal No. 19-01	2036 ft (KB) $_{\text{CBL}}$

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OU. GAS AND MINING

DEPARTMENT OF NATURAL RESOURCES	
DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3513
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  Ute Indian Tribe
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	14 20 1102 4000
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: Ute Indian Tribal 18-16
2. NAME OF OPERATOR:	9. API NUMBER:
Petroglyph Operating Company, Inc.  3. ADDRESS OF OPERATOR: PHONE NUMBER:	4301331747  10. FIELD AND POOL, OR WILDCAT:
P. O. Box 607 CITY Roosevelt STATE UT ZIP 84066 (435) 722-530	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 790' FSL 670' FEL	COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 18 T5S R3W	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, R	EPORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON  TUBING REPAIR
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE  CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
Date of work completion:  COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORM	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths,	volumes, etc.
This sundry is serving notice that Petroglyph Operating Company Inc. (POCI) plans to injection well from a producing well. This work is being performed under our area UIC has obtained approval to perform the conversion on the Ute Tribal 18-16 from the EPA 18-16 is complete, POCI will submit the necessary information to the EPA to obtain approval.	permit number UT20736-00000. POCI  . After the conversion on the Ute Tribal
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY	
NAME (PLEASE PRINT) Steve Wall  SIGNATURE DATE 12/5/2006	
	BECEIVED
(This space for State use only)	
	DEC 0 8 2006

DIV. OF OIL, GAS & MINING

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OU. CAS AND MINING

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623513						
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe						
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT OF CA AGREEMENT NAME: 1420H624650						
1. TYPE OF WELL OIL WELL GAS WELL OTHER Injection Conversion	8. WELL NAME and NUMBER: Ute Tribal 18-16						
2. NAME OF OPERATOR:	9. API NUMBER:						
Petroglyph Operating Company, Inc.	4301331747						
3. ADDRESS OF OPERATOR: P. O. Box 607 Roosevelt STATE UT ZIP 84066 PHONE NUMBER: (435) 722-5304	10. FIELD AND POOL, OR WLDCAT: Antelope Creek						
4. LOCATION OF WELL							
FOOTAGES AT SURFACE: 790' FSL 670' FEL	COUNTY: Duchesne						
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 18 R5S R3W	STATE: UTAH						
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA						
TYPE OF SUBMISSION TYPE OF ACTION							
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION						
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL						
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON						
CHANGE TO PREVIOUS PLANS DERATOR CHANGE	TUBING REPAIR						
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE						
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only)	WATER DISPOSAL						
Date of work completion:  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	WATER SHUT-OFF						
1/6/2007 COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:						
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION							
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume	nes, etc.						
This well has been converted from a production to injection to support the ongoing secondary water flood currently active in the Antelope Creek Field. The rods and 2 7/8" tubing has been removed and an injection 2 3/8" J-55 4.7# injection string has been installed with the packer set at 4287.8' +/ Add perfs, no frac, C6= 4661' to 4686', C8.1 = 4739' to 4742', D7 = 5086' to 5089', E1.2 = 5476' to 5500', E 4.2 = 5613' to 5618'. E 5.1 = 5652' to 5660'. E7 = 5769' to 5777'. Packer fluid has been circulated in the casing and a successful MIT conducted.							
Accepted by the Division of							
Accepted by more Utah Division of Utah Division of Oil, Gas and Mining							
Oil Gas and MILY							
ON BECORD ON							
FOR RECORD ONLY	RECEIVED						
	FEB 2 3 2007						
DIV	OF OIL, GAS & MINING						
NAME (PLEASE PRINT) Steve Wall TITLE Manager							
SIGNATURE Stee Walf DATE 2/2/2007							

(This space for State use only)

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MI	NING	5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623513
SUNDRY NOTICES AND REPORTS	S ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
Do not use this form for proposals to drill new wells, significantly deepen existing wells below cu	rrent bottom-hole depth, reenter plugged wells, or to	7. UNIT OF CA AGREEMENT NAME: 1420H62450
	Water Injection Well	8. WELL NAME and NUMBER: Ute Tribal 18-16
2. NAME OF OPERATOR:		9. API NUMBER:
Petroglyph Operating Company, Inc.	PHONE NUMBER:	4301331747  10. FIELD AND POOL, OR WILDCAT:
3. ADDRESS OF OPERATOR: P. O. Box 607  CITY Roosevelt  STATE Ut  ZIF	84066 (435) 722-5304	Antelope Creek
4. LOCATION OF WELL 0895 F64 CONSTELL FOOTAGES AT SURFACE: 790' FSL 670' FEL		COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 18 T5S F		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICAT		PRT, OR OTHER DATA
TYPE OF SUBMISSION  ACIDIZE	TYPE OF ACTION  DEEPEN	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)  ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	PLUG BACK	WATER DISPOSAL
Date of work completion:	PRODUCTION (START/RESUME)	WATER SHUT-OFF
7/24/2007 CONVERT WELL TYPE	RECLAMATION OF WELL SITE  RECOMPLETE - DIFFERENT FORMATION	OTHER:
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all prints that a date of Injection July 24, 2007  Accepte Utah Dir Oil, Gas a		Nes, etc.
NAME (PLEASE PRINT) Steve Wall	TITLE Manager	
SIGNATURE Stup Walf	DATE 7/25/2007	
This space for State use only)		

**RECEIVED** JUL 3 1 2007